

MRP-NPB10AS

Remote Power Supply



Description

The MRP-NPB10AS is an extremely cost effective 10 amps voltage regulated remote power supply/battery charger. The MRP-NPB10AS may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and will provide auxiliary power to support system accessories. The unit delivers regulated and filtered 24 volt power via eight (8) Class B, two (2) Class A or two (2) Class B and one (1) Class A Notification Appliance Circuits.

Additionally, a separate 1 amp auxiliary output with reset for four (4) wire smoke detectors. The 10 amps rated supply current can be divided between the four (4) outputs for powering notification appliances. Each output is rated at 2.5 amps max., and can be independently programmed for Steady, Temporal Code 3 or Strobe Synchronization. All outputs may be programmed for Input to Output Follower Mode (output will follow input. i.e. March Time Input, March Time Output). An individual output of 4 amps is achieved by paralleling 2 outputs.

The MRP-NPB10AS in non-alarm condition provides independent loop supervision for Class A and/or Class B FACP NAC circuits. In the event of a loop trouble the FACP will be notified via the MRP-NPB10AS steered input (input 1 or input 2). In addition, there are common trouble output terminals (N.C., C, N.O.) which are used to indicate general loop/system trouble. A common trouble input is provided for optional NC (normally closed) devices to report trouble to the FACP. Two (2) FACP signaling outputs can be connected to MRP-NPB10AS inputs. These inputs can then be directed to control supervision and power delivery to any combination of the four (4) outputs.

Features

- Power input 115VAC 50/60 Hz, 3.2 amp
- 24VDC voltage regulated power limited outputs
- 24VDC rated @ 10 amp max
- Typical 8.6 mV output voltage ripple
- Separate 1 Amp auxiliary output with built-in and remote reset capability
- Two (2) outputs may be paralleled for more power on an indicating circuit
- Two (2) Class A or two (2) Class B FACP input
- Two (2) NC dry contact trigger inputs
- Programmable supervised indicating circuit outputs: Four (4) Class B or Two (2) Class A or One (1) Class A and Two (2) Class B
- Two (2)-wire horn/strobe Sync mode allows audible notification appliances (horns) to be silenced while visual notification appliances (strobes) continue to operate
- Temporal Code 3, Steady Mode, Input to Output Follower Mode (maintains synchronization of notification appliances circuit)
- March Time
- Compatible with 12VDC or 24VDC fire panels
- Filtered and electronically regulated output
- Output loop supervision steered to input 1 or input 2
- Common trouble input and output
- Ground fault detection
- Built-in charger for sealed lead acid or gel type batteries
- Automatic switchover to stand-by battery when AC Fails
- Zero voltage drop when switching over to battery backup
- Thermal and short circuit protection with auto reset
- Input and output status LED indicators
- AC fail supervision (form "C" contact, 1 amp / 28VDC)
- Factory set for 1 minute with optional 6 hour delay setting (field selectable).
- Battery presence and low battery supervision (form "C" contact, 1 amp / 28VDC)
- Horn/Strobe sync protocols include Mircom, Amseco, Gentex, System Sensor, Faraday and Wheelock
- Unit includes power supply, red enclosure, cam lock, open frame transformer and battery leads.
- Enclosure dimensions: 15.5"H x 12"W x 4.5"D



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